

Appl. No. : 10/063,518  
Filed : May 1, 2002

### AMENDMENTS TO THE CLAIMS

1. **Cancelled**
2. **Cancelled**
3. **Cancelled**
4. **(Currently Amended)** An isolated polypeptide having at least 95% amino acid sequence identity to:
  - (a) the amino acid sequence of the polypeptide of SEQ ID NO: 14;
  - (b) the amino acid sequence of the polypeptide of SEQ ID NO: 14, lacking its associated signal peptide;
  - (c) ~~the amino acid sequence of the extracellular domain~~ a portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234;
  - (d) ~~the amino acid sequence of the extracellular domain~~ a polypeptide comprising amino acids 1-20 of the polypeptide of SEQ ID NO: 14 and another portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14, including its associated signal peptide wherein said other portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 is selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234; or
  - (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203579;  
~~wherein said extracellular domain is selected from the group consisting of amino acids 21-53 of SEQ ID NO: 14, amino acids 119-129 of SEQ ID NO: 14, and amino acids 167-234 of SEQ ID NO: 14; and~~  
wherein said isolated polypeptide is more highly expressed in melanoma compared to normal skin tissue or wherein said isolated polypeptide is encoded by a polynucleotide that is more highly expressed in melanoma compared to normal skin tissue.
5. **(Currently Amended)** The isolated polypeptide of Claim 4 having at least 99% amino acid sequence identity to:

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- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 14;
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 14, lacking its associated signal peptide;

(c) ~~the amino acid sequence of the extracellular domain~~ a portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234;

(d) ~~the amino acid sequence of the extracellular domain~~ a polypeptide comprising amino acids 1-20 of the polypeptide of SEQ ID NO: 14 and another portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14, including its associated signal peptide wherein said other portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 is selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234; or

(e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203579;

~~wherein said extracellular domain is selected from the group consisting of amino acids 21-53 of SEQ ID NO: 14, amino acids 119-129 of SEQ ID NO: 14, and amino acids 167-234 of SEQ ID NO: 14; and~~

wherein said isolated polypeptide is more highly expressed in melanoma compared to normal skin tissue or wherein said isolated polypeptide is encoded by a polynucleotide that is more highly expressed in melanoma compared to normal skin tissue.

6. (Currently Amended) An isolated polypeptide comprising:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 14;
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 14, lacking its associated signal peptide;

(c) ~~the amino acid sequence of the extracellular domain~~ a portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234;

(d) ~~the amino acid sequence of the extracellular domain~~ a polypeptide comprising amino acids 1-20 of the polypeptide of SEQ ID NO: 14 and another portion of

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the amino acid sequence of the polypeptide of SEQ ID NO: 14, including its associated signal peptide wherein said other portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 is selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234; or

(e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203579;

~~wherein said extracellular domain is selected from the group consisting of amino acids 21-53 of SEQ ID NO: 14, amino acids 119-129 of SEQ ID NO: 14, and amino acids 167-234 of SEQ ID NO: 14.~~

7. **(Previously Presented)** The isolated polypeptide of Claim 6 comprising the amino acid sequence of the polypeptide of SEQ ID NO: 14.

8. **(Previously Presented)** The isolated polypeptide of Claim 6 comprising the amino acid sequence of the polypeptide of SEQ ID NO: 14, lacking its associated signal peptide.

9. **(Currently Amended)** The isolated polypeptide of Claim 6 comprising ~~the amino acid sequence of the extracellular domain~~ a portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14, ~~wherein said extracellular domain is selected from the group consisting of amino acids 21-53 of SEQ ID NO: 14, amino acids 119-129 of SEQ ID NO: 14, and amino acids 167-234 of SEQ ID NO: 14.~~

10. **(Currently Amended)** The isolated polypeptide of Claim 6 comprising ~~the amino acid sequence of the extracellular domain~~ amino acids 1-20 of the polypeptide of SEQ ID NO: 14 and another portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14, ~~including its associated signal peptide, wherein said extracellular domain wherein said other portion~~ is selected from the group consisting of amino acids 21-53 of SEQ ID NO: 14, amino acids 119-129 of SEQ ID NO: 14, and amino acids 167-234 of SEQ ID NO: 14.

11. **(Original)** The isolated polypeptide of Claim 6 comprising the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203579.

12. **(Previously Presented)** A chimeric polypeptide comprising a polypeptide according to Claim 4 fused to a heterologous polypeptide.

13. **(Previously Presented)** The chimeric polypeptide of Claim 12, wherein said heterologous polypeptide is a tag polypeptide or an Fc region of an immunoglobulin.

14. **(Currently Amended)** An isolated polypeptide having at least 95% amino acid sequence identity to:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 14;
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 14, lacking its associated signal peptide;
- (c) ~~the amino acid sequence of the extracellular domain~~ a portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234;
- (d) ~~the amino acid sequence of the extracellular domain a polypeptide comprising amino acids 1-20 of the polypeptide of SEQ ID NO: 14 and another portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14, including its associated signal peptide wherein said other portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 is selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234; or~~
- (e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203579;  
~~wherein said extracellular domain is selected from the group consisting of amino acids 21-53 of SEQ ID NO: 14, amino acids 119-129 of SEQ ID NO: 14, and amino acids 167-234 of SEQ ID NO: 14; and~~  
wherein said isolated polypeptide or a fragment thereof can be used to generate an antibody which can be used to specifically detect the polypeptide of SEQ ID NO: 14 in skin tissue samples.

15. **(Currently Amended)** The isolated polypeptide of Claim 14 having at least 99% amino acid sequence identity to:

- (a) the amino acid sequence of the polypeptide of SEQ ID NO: 14;
- (b) the amino acid sequence of the polypeptide of SEQ ID NO: 14, lacking its associated signal peptide;

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(c) ~~the amino acid sequence of the extracellular domain~~ a portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234;

(d) ~~the amino acid sequence of the extracellular domain~~ a polypeptide comprising amino acids 1-20 of the polypeptide of SEQ ID NO: 14 and another portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14, including its associated signal peptide wherein said other portion of the amino acid sequence of the polypeptide of SEQ ID NO: 14 is selected from the group consisting of amino acids 21-53, amino acids 119-129, and amino acids 167-234; or

(e) the amino acid sequence of the polypeptide encoded by the full-length coding sequence of the cDNA deposited under ATCC accession number 203579;

~~wherein said extracellular domain is selected from the group consisting of amino acids 21-53 of SEQ ID NO: 14, amino acids 119-129 of SEQ ID NO: 14, and amino acids 167-234 of SEQ ID NO: 14; and~~

wherein said isolated polypeptide or a fragment thereof can be used to generate an antibody which can be used to specifically detect the polypeptide of SEQ ID NO: 14 in skin tissue samples.

16. **(Previously Presented)** A chimeric polypeptide comprising a polypeptide according to Claim 14 fused to a heterologous polypeptide.

17. **(Previously Presented)** The chimeric polypeptide of Claim 16, wherein said heterologous polypeptide is a tag polypeptide or an Fc region of an immunoglobulin.